

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/526,234
Source: PCR/10
Date Processed by STIC: 3/9/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,234

TIME: 15:19:49

Input Set : A:\3190-072 Sequence Listing.txt

Output Set: N:\CRF4\03092005\J526234.raw

3 <110> APPLICANT: DOI, Hirofumi
 4 KUDO, Gen
 6 <120> TITLE OF INVENTION: Method of Degradation, Method for Inhibiting Degradation,
 7 and Agent for Inhibiting Degradation, for Transcription
 8 Factors of Glucose Metabolism-Related Genes
 10 <130> FILE REFERENCE: 3190-072
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/526,234
 13 <141> CURRENT FILING DATE: 2005-02-28
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP2003/11046
 16 <151> PRIOR FILING DATE: 2003-08-29
 19 <150> PRIOR APPLICATION NUMBER: JP P2002-254973
 20 <151> PRIOR FILING DATE: 2002-08-30
 22 <150> PRIOR APPLICATION NUMBER: JP P2003-96370
 23 <151> PRIOR FILING DATE: 2003-03-31
 25 <150> PRIOR APPLICATION NUMBER: JP P2003-96371
 26 <151> PRIOR FILING DATE: 2003-03-31
 28 <150> PRIOR APPLICATION NUMBER: JP P2003-96372
 29 <151> PRIOR FILING DATE: 2003-03-31
 31 <160> NUMBER OF SEQ ID NOS: 5
 33 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply
 Corrected Diskette Needed

pp 1-6

ERRORED SEQUENCES

35 <210> SEQ ID NO: 1
 36 <211> LENGTH: 465
 37 <212> TYPE: PRT
 38 <213> ORGANISM: Homo sapiens
 40 <400> SEQUENCE: 1
 42 Met Asp Met Ala Asp Tyr Ser Ala Ala Leu Asp Pro Ala Tyr Thr Thr
 43 1 5 10 15
 46 Leu Glu Phe Glu Asn Val Gln Val Leu Thr Met Gly Asn Asp Thr Ser
 47 20 25 30
 50 Pro Ser Glu Gly Thr Asn Leu Asn Ala Pro Asn Ser Leu Gly Val Ser
 51 35 40 45
 54 Ala Leu Cys Ala Ile Cys Gly Asp Arg Ala Thr Gly Lys His Tyr Gly
 55 50 55 60
 E--> 58
 62 Ala Ser Ser Cys Asp Gly Cys Lys Gly Phe Phe Arg Arg Ser Val Arg
 E--> 63 65 70 75 80
 66 Lys Asn His Met Tyr Ser Cys Arg Phe Ser Arg Gln Cys Val Val Asp
 E--> 67 85 90 95
 70 Lys Asp Lys Arg Asn Gln Cys Arg Tyr Cys Arg Leu Lys Lys Cys Phe

(-1-)

delete ALL page numbers. They are not
 allowed in
 the computer
 readable form copy
 of the sequence listing.
 (Sec 1.824 of the
 sequence rules)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,234

DATE: 03/09/2005

TIME: 15:19:49

Input Set : A:\3190-072 Sequence Listing.txt

Output Set : N:\CRF4\03092005\J526234.raw

```

E--> 71          100          105          110
      74 Arg Ala Gly Met Lys Lys Glu Ala Val Gln Asn Glu Arg Asp Arg Ile
E--> 75          115          120          125
      78 Ser Thr Arg Arg Ser Ser Tyr Glu Asp Ser Ser Leu Pro Ser Ile Asn
E--> 79          130          135          140
      82 Ala Leu Leu Gln Ala Glu Val Leu Ser Arg Gln Ile Thr Ser Pro Val
E--> 83 145          150          155          160
      86 Ser Gly Ile Asn Gly Asp Ile Arg Ala Lys Lys Ile Ala Ser Ile Ala
E--> 87          165          170          175
      90 Asp Val Cys Glu Ser Met Lys Glu Gln Leu Leu Val Leu Val Glu Trp
E--> 91          180          185          190
      94 Ala Lys Tyr Ile Pro Ala Phe Cys Glu Leu Pro Leu Asp Asp Gln Val
E--> 95          195          200          205
      98 Ala Leu Leu Arg Ala His Ala Gly Glu His Leu Leu Leu Gly Ala Thr
E--> 99          210          215          220
      102 Lys Arg Ser Met Val Phe Lys Asp Val Leu Leu Leu Gly Asn Asp Tyr
E--> 103 225          230          235          240
      106 Ile Val Pro Arg His Cys Pro Glu Leu Ala Glu Met Ser Arg Val Ser
E--> 107          245          250          255
      110 Ile Arg Ile Leu Asp Glu Leu Val Leu Pro Phe Gln Glu Leu Gln Ile
E--> 111          260          265          270
      114 Asp Asp Asn Glu Tyr Ala Tyr Leu Lys Ala Ile Ile Phe Phe Asp Pro
E--> 115          275          280          285
E--> 118
      119 Asp Ala Lys Gly Leu Ser Asp Pro Gly Lys Ile Lys Arg Leu Arg Ser
E--> 120          290          295          300
      123 Gln Val Gln Val Ser Leu Glu Asp Tyr Ile Asn Asp Arg Gln Tyr Asp
E--> 124 305          310          315          320
      127 Ser Arg Gly Arg Phe Gly Glu Leu Leu Leu Leu Leu Pro Thr Leu Gln
E--> 128          325          330          335
      131 Ser Ile Thr Trp Gln Met Ile Glu Gln Ile Gln Phe Ile Lys Leu Phe
E--> 132          340          345          350
      135 Gly Met Ala Lys Ile Asp Asn Leu Leu Gln Glu Met Leu Leu Gly Gly
E--> 136          355          360          365
      139 Ser Pro Ser Asp Ala Pro His Ala His His Pro Leu His Pro His Leu
E--> 140          370          375          380
      143 Met Gln Glu His Met Gly Thr Asn Val Ile Val Ala Asn Thr Met Pro
E--> 144 385          390          395          400
      147 Thr His Leu Ser Asn Gly Gln Met Cys Glu Trp Pro Arg Pro Arg Gly
E--> 148          405          410          415
      151 Gln Ala Ala Thr Pro Glu Thr Pro Gln Pro Ser Pro Pro Gly Gly Ser
E--> 152          420          425          430
      155 Gly Ser Glu Pro Tyr Lys Leu Leu Pro Gly Ala Val Ala Thr Ile Val
E--> 156          435          440          445
      159 Lys Pro Leu Ser Ala Ile Pro Gln Pro Thr Ile Thr Lys Gln Glu Val
E--> 160          450          455          460
      163 Ile
E--> 164 465
      167 <210> SEQ ID NO: 2

```

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delete

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,234

DATE: 03/09/2005

TIME: 15:19:49

Input Set : A:\3190-072 Sequence Listing.txt

Output Set : N:\CRF4\03092005\J526234.raw

168 <211> LENGTH: 631
 169 <212> TYPE: PRT
 170 <213> ORGANISM: Homo sapiens
 173 <220> FEATURE:
 174 <221> NAME/KEY: MISC FEATURE
 W--> 175 ~~-3-~~ delete
 176 <222> LOCATION: (322)..(322)
 177 <223> OTHER INFORMATION: UNSURE
 178 Xaa may be Tyr since it has been shown in many reports
 179 that the codon of Xaa is tat.
 182 <400> SEQUENCE: 2
 184 Met Val Ser Lys Leu Ser Gln Leu Gln Thr Glu Leu Leu Ala Ala Leu
 185 1 5 10 15
 188 Leu Glu Ser Gly Leu Ser Lys Glu Ala Leu Ile Gln Ala Leu Gly Glu
 189 20 25 30
 192 Pro Gly Pro Tyr Leu Leu Ala Gly Glu Gly Pro Leu Asp Lys Gly Glu
 193 35 40 45
 196 Ser Cys Gly Gly Gly Arg Gly Glu Leu Ala Glu Leu Pro Asn Gly Leu
 197 50 55 60
 200 Gly Glu Thr Arg Gly Ser Glu Asp Glu Thr Asp Asp Asp Gly Glu Asp
 201 65 70 75 80
 204 Phe Thr Pro Pro Ile Leu Lys Glu Leu Glu Asn Leu Ser Pro Glu Glu
 205 85 90 95
 208 Ala Ala His Gln Lys Ala Val Val Glu Thr Leu Leu Gln Glu Asp Pro
 209 100 105 110
 212 Trp Arg Val Ala Lys Met Val Lys Ser Tyr Leu Gln Gln His Asn Ile
 213 115 120 125
 216 Pro Gln Arg Glu Val Val Asp Thr Thr Gly Leu Asn Gln Ser His Leu
 217 130 135 140
 220 Ser Gln His Leu Asn Lys Gly Thr Pro Met Lys Thr Gln Lys Arg Ala
 221 145 150 155 160
 224 Ala Leu Tyr Thr Trp Tyr Val Arg Lys Gln Arg Glu Val Ala Gln Gln
 225 165 170 175
 228 Phe Thr His Ala Gly Gln Gly Gly Leu Ile Glu Glu Pro Thr Gly Asp
 229 180 185 190
 E--> 232 ~~-4-~~ delete
 233 Glu Leu Pro Thr Lys Lys Gly Arg Arg Asn Arg Phe Lys Trp Gly Pro
 E--> 234 195 200 205
 237 Ala Ser Gln Gln Ile Leu Phe Gln Ala Tyr Glu Arg Gln Lys Asn Pro
 E--> 238 210 215 220
 241 Ser Lys Glu Glu Arg Glu Thr Leu Val Glu Glu Cys Asn Arg Ala Glu
 E--> 242 225 230 235 240
 245 Cys Ile Gln Arg Gly Val Ser Pro Ser Gln Ala Gln Gly Leu Gly Ser
 E--> 246 245 250 255
 249 Asn Leu Val Thr Glu Val Arg Val Tyr Asn Trp Phe Ala Asn Arg Arg
 E--> 250 260 265 270
 253 Lys Glu Glu Ala Phe Arg His Lys Leu Ala Met Asp Thr Tyr Ser Gly
 E--> 254 275 280 285
 257 Pro Pro Pro Gly Pro Gly Pro Gly Pro Ala Leu Pro Ala His Ser Ser

RAW SEQUENCE LISTING

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Output Set: N:\CRF4\03092005\J526234.raw

```

E--> 258      290      295      300
      262 Pro Gly Leu Pro Pro Pro Ala Leu Ser Pro Ser Lys Val His Gly Val
E--> 263 305      310      315      320
W--> 266 Arg Xaa Gly Gln Pro Ala Thr Ser Glu Thr Ala Glu Val Pro Ser Ser
E--> 267      325      330      335
      270 Ser Gly Gly Pro Leu Val Thr Val Ser Thr Pro Leu His Gln Val Ser
E--> 271      340      345      350
      274 Pro Thr Gly Leu Glu Pro Ser His Ser Leu Leu Ser Thr Glu Ala Lys
E--> 275      355      360      365
      278 Leu Val Ser Ala Ala Gly Gly Pro Leu Pro Pro Val Ser Thr Leu Thr
E--> 279      370      375      380
      282 Ala Leu His Ser Leu Glu Gln Thr Ser Pro Gly Leu Asn Gln Gln Pro
E--> 283 385      390      395      400
      286 Gln Asn Leu Ile Met Ala Ser Leu Pro Gly Val Met Thr Ile Gly Pro
E--> 287      405      410      415
E--> 290
      294 Gly Glu Pro Ala Ser Leu Gly Pro Thr Phe Thr Asn Thr Gly Ala Ser
E--> 295      420      425      430
      298 Thr Leu Val Ile Gly Leu Ala Ser Thr Gln Ala Gln Ser Val Pro Val
E--> 299      435      440      445
      302 Ile Asn Ser Met Gly Ser Ser Leu Thr Thr Leu Gln Pro Val Gln Phe
E--> 303      450      455      460
      306 Ser Gln Pro Leu His Pro Ser Tyr Gln Gln Pro Leu Met Pro Pro Val
E--> 307 465      470      475      480
      310 Gln Ser His Val Thr Gln Ser Pro Phe Met Ala Thr Met Ala Gln Leu
E--> 311      485      490      495
      314 Gln Ser Pro His Ala Leu Tyr Ser His Lys Pro Glu Val Ala Gln Tyr
E--> 315      500      505      510
      318 Thr His Thr Gly Leu Leu Pro Gln Thr Met Leu Ile Thr Asp Thr Thr
E--> 319      515      520      525
      322 Asn Leu Ser Ala Leu Ala Ser Leu Thr Pro Thr Lys Gln Val Phe Thr
E--> 323      530      535      540
      326 Ser Asp Thr Glu Ala Ser Ser Glu Ser Gly Leu His Thr Pro Ala Ser
E--> 327 545      550      555      560
      330 Gln Ala Thr Thr Leu His Val Pro Ser Gln Asp Pro Ala Gly Ile Gln
E--> 331      565      570      575
      334 His Leu Gln Pro Ala His Arg Leu Ser Ala Ser Pro Thr Val Ser Ser
E--> 335      580      585      590
      338 Ser Ser Leu Val Leu Tyr Gln Ser Ser Asp Ser Ser Asn Gly Gln Ser
E--> 339      595      600      605
      342 His Leu Leu Pro Ser Asn His Ser Val Ile Glu Thr Phe Ile Ser Thr
E--> 343      610      615      620
      346 Gln Met Ala Ser Ser Ser Gln
E--> 347 625      630
E--> 350
353 <210> SEQ ID NO: 3
354 <211> LENGTH: 283
355 <212> TYPE: PRT
356 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,234

TIME: 15:19:49

Input Set : A:\3190-072 Sequence Listing.txt

Output Set: N:\CRF4\03092005\J526234.raw

```

358 <400> SEQUENCE: 3
360 Met Asn Gly Glu Glu Gln Tyr Tyr Ala Ala Thr Gln Leu Tyr Lys Asp
361 1 5 10 15
364 Pro Cys Ala Phe Gln Arg Gly Pro Ala Pro Glu Phe Ser Ala Ser Pro
365 20 25 30
368 Pro Ala Cys Leu Tyr Met Gly Arg Gln Pro Pro Pro Pro Pro His
369 35 40 45
372 Pro Phe Pro Gly Ala Leu Gly Ala Leu Glu Gln Gly Ser Pro Pro Asp
373 50 55 60
376 Ile Ser Pro Tyr Glu Val Pro Pro Leu Ala Asp Asp Pro Ala Val Ala
377 65 70 75 80
380 His Leu His His His Leu Pro Ala Gln Leu Ala Leu Pro His Pro Pro
381 85 90 95
384 Ala Gly Pro Phe Pro Glu Gly Ala Glu Pro Gly Val Leu Glu Glu Pro
385 100 105 110
388 Asn Arg Val Gln Leu Pro Phe Pro Trp Met Lys Ser Thr Lys Ala His
389 115 120 125
392 Ala Trp Lys Gly Gln Trp Ala Gly Gly Ala Tyr Ala Ala Glu Pro Glu
393 130 135 140
396 Glu Asn Lys Arg Thr Arg Thr Ala Tyr Thr Arg Ala Gln Leu Leu Glu
397 145 150 155 160
400 Leu Glu Lys Glu Phe Leu Phe Asn Lys Tyr Ile Ser Arg Pro Arg Arg
401 165 170 175
404 Val Glu Leu Ala Val Met Leu Asn Leu Thr Glu Arg His Ile Lys Ile
405 180 185 190
E--> 409
      -7- delete
411 Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys Glu Glu Asp Lys Lys
E--> 412 195 200 205
415 Arg Gly Gly Gly Thr Ala Val Gly Gly Gly Gly Val Ala Glu Pro Glu
E--> 416 210 215 220
419 Gln Asp Cys Ala Val Thr Ser Gly Glu Glu Leu Leu Ala Leu Pro Pro
E--> 420 225 230 235 240
423 Pro Pro Pro Pro Gly Gly Ala Val Pro Pro Ala Ala Pro Val Ala Ala
E--> 424 245 250 255
427 Arg Glu Gly Arg Leu Pro Pro Gly Leu Ser Ala Ser Pro Gln Pro Ser
E--> 428 260 265 270
431 Ser Val Ala Pro Arg Arg Pro Gln Glu Pro Arg
E--> 432 275 280

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452 <210> SEQ ID NO: 5

453 <211> LENGTH: 6

454 <212> TYPE: PRT

455 <213> ORGANISM: Homo sapiens

457 <220> FEATURE:

458 <221> NAME/KEY: misc feature

459 <223> OTHER INFORMATION: Partial peptide of human HNF-4alpha, showing high score in
the

460 local alignment between human m-calpain or rabbit m-calpain and

461 human HNF-4alpha

463 <400> SEQUENCE: 5

465 Tyr Lys Leu Leu Pro Gly

P.6

RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,234

TIME: 15:19:49

Input Set : A:\3190-072 Sequence Listing.txt

Output Set: N:\CRF4\03092005\J526234.raw

466 1
E--> 467

5

-8- *delite*

VERIFICATION SUMMARY

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,234

TIME: 15:19:50

Input Set : A:\3190-072 Sequence Listing.txt

Output Set: N:\CRF4\03092005\J526234.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:58 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:1
M:332 Repeated in SeqNo=1
L:175 M:257 W: Feature value mis-spelled or invalid, Describe feature in <223> for SEQ ID#:2
L:232 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2
M:332 Repeated in SeqNo=2
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:320
L:409 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3
M:332 Repeated in SeqNo=3
L:467 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:5